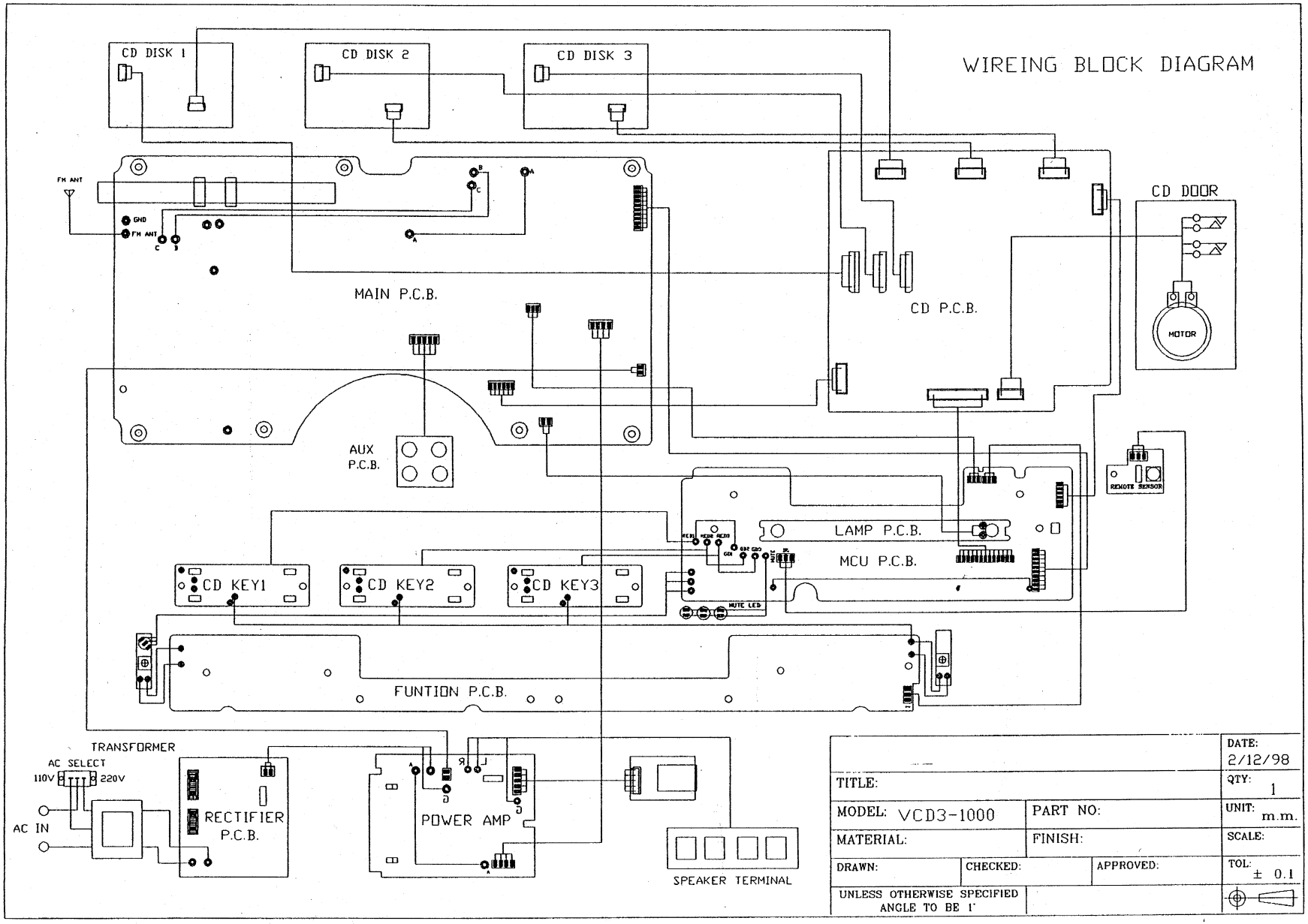
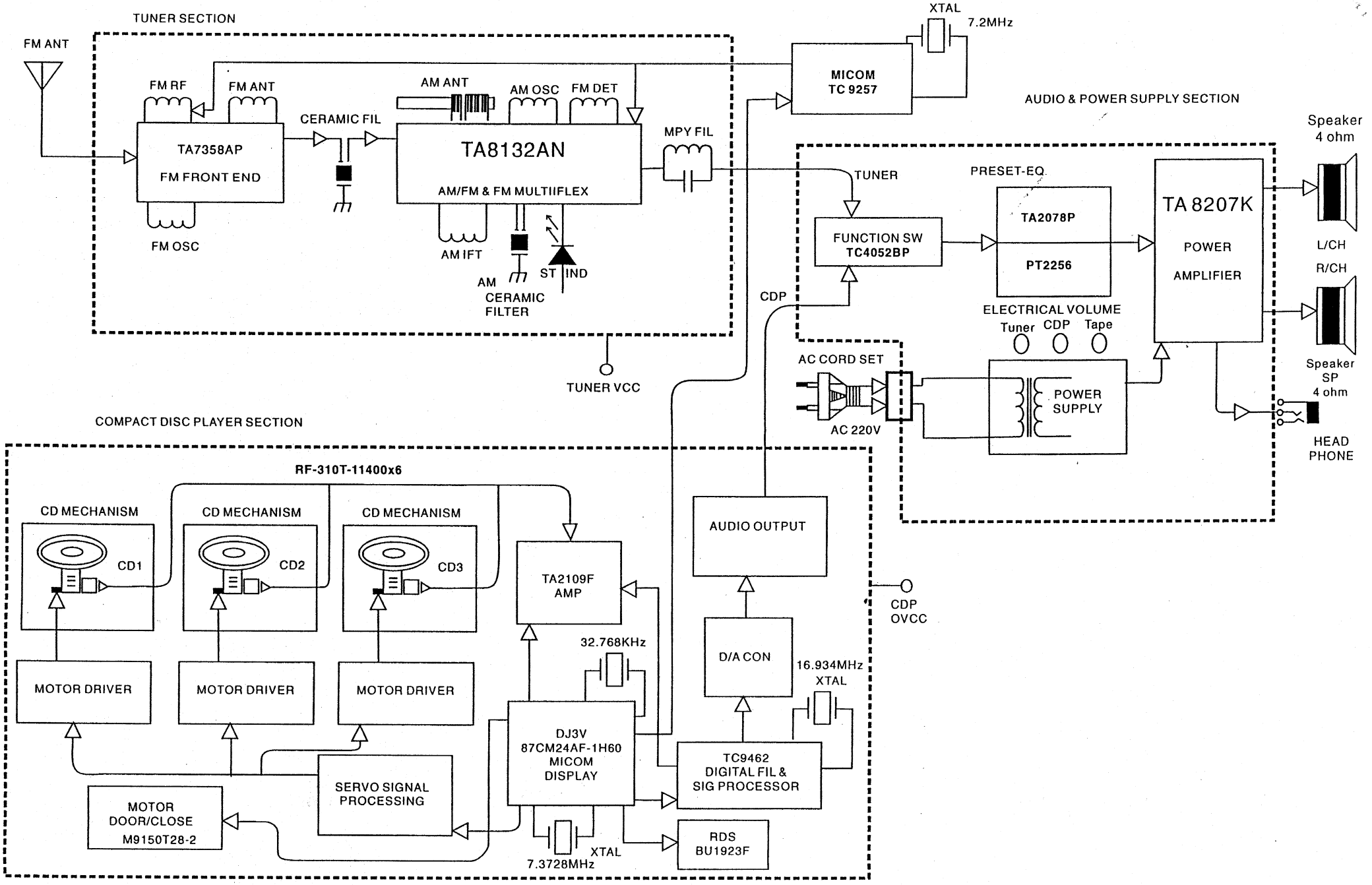
CTC CLATRONIC®

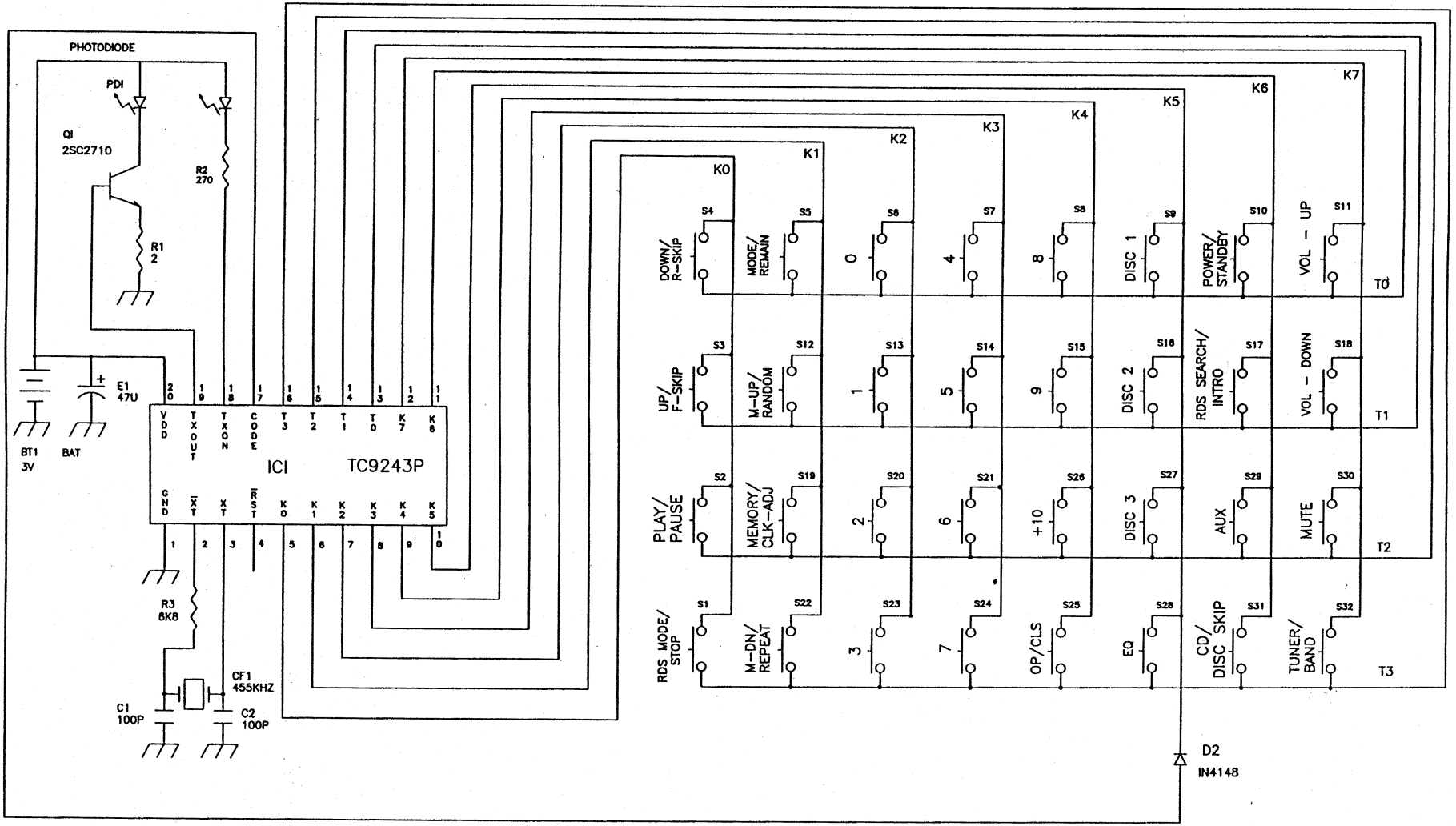
MC 096 CD

Service Manual


WIREING BLOCK DIAGRAM
CD DISK 1
CD DISK 2
CD DISK 3
FM ANT
GND
FM ANT
MAIN P.C.B.
CD P.C.B.
CD DOOR
MOTOR
AUX
P.C.B.
REMOTE SENSOR
LAMP P.C.B.
MCU P.C.B.
CD KEY1
CD KEY2
CD KEY3
MUTE LED
FUNTION P.C.B.
TRANSFORMER
AC SELECT
110V
220V
AC IN
RECTIFIER
P.C.B.
POWER AMP
SPEAKER TERMINAL
DATE:
2/12/98
TITLE:
QTY:
1
MODEL: VCD3-1000
PART NO:
UNIT:
m.m.
MATERIAL:
FINISH:
SCALE:
DRAWN:
CHECKED:
APPROVED:
TOL:
± 0.1
UNLESS OTHERWISE SPECIFIED
ANGLE TO BE 1°

VCD3-1000 BLOCK DIAGRAM





MODE : VCD3-1000	
TITLE : REMOTE BOARD	
DRAWN NO.	DATE : 25-9-2000
SHEET :	REV :
DRAWN BY :	

ALLIGNMENT INSTRUCTION - FM SECTION

MODEL NO. VCD3-1000

STEP	FREQUENCY	TEST EQUIPMENT	SIGNAL IN	SIGNAL OUT	ADJUSTMENT	REMARK
1	IF 10.7 MHz	(1) FM IF SWEEP GENERATOR (2) ALIGNMENT OSCILLOSCOPE	INJECT THE IF SIGNAL THROUGH 100PF CAP. TO FM RF TUNER PIN 5.	TAKE OUT SIGNAL FROM IC101 PIN 19 IN SERIES WITH A 0.1 UF CER. CAP.	TO CHECK THE BEST 'S' CURVE WITH CENTRE AT 10.7 MHz	(1) BAND SWITCH IN FM POSITION. (2) VOL.IN MIN. POSITION. (3) TUNE TO HIGH END.
2	LOW END 87.5 MHz	(1) FM RF SWEEP GENERATOR (2) ALIGNMENT OSCILLOSCOPE (3)VTVM	INJECT THE RF SIGNAL DIRECTLY TO ATENNA INPUT.	AS STEP 1	CHECK VOLTAGE AT VTVM TO BE 1.6V +/- 0.5V	TUNE TO LOW END.
3	HIGH END 108 MHz	AS STEP 2	AS STEP 2	AS STEP 1	CHECK VOLTAGE AT VTVM TO BE 7.9V +/-0.6V	TUNE TO HIGH END.
4	TRACKING 90.1 MHz	AS STEP 2	AS STEP 2	AS STEP 1	CHECK MAX.OUTPUT AT 90.1 MHz SHOULD BE WITHIN THE SPECIFICATION.	PRESS BUTTON TO 90.1 MHz
5	TRACKING 106.1 MHz	AS STEP 2	AS STEP 2	AS STEP 1	CHECK MAX.OUTPUT AT 106.1 MHz. SHOULD BE WITHIN THE SPECIFICATION.	PRESS BUTTON TO 106.1 MHz
6	REPEAT STEP 4,5 AND THEN STEP 2,3,4,5 UNTIL NO FURTHER IMPROVEMENT CAN BE MADE.					
7	TRACKING 98.1 MHz	AS STEP 2	AS STEP 2	AS STEP 1	MAKE SURE THE OUTPUT AT 98.1 MHz SHOULD BE WITHIN THE SPECIFICATION.	PRESS BUTTON TO 98.1 MHz

ALLIGNMENT INSTRUCTION - MW SECTION

MODEL NO. VCD3-1000

STEP	FREQUENCY	TEST EQUIPMENT	SIGNAL IN	SIGNAL OUT	ADJUSTMENT	REMARK
1	IF 450KHz	(1) AM IF SWEEP GENERATOR (2) ALLIGNMENT OSCILLOSCOPE	LET THE MW ANTENNA COIL L102 CLOSE TO THE LOOP ANTENNA OF AM IF SWEEP GEN.	TAKE OUT SINGAL FROM IC101 PIN 19 IN SERIES WITH A 0.1UF CER. CAP.	ADJUST T102 TO GET MAX. OUTPUT AT 450 KHz	(1) BAND SWITCH IN AM POSITION (2) VOL. CONTROL IN MIN. POSITION (3) TUNE TO HIGH END.
2	LOW END 522 KHz	(1) AM RF SWEEP GENERATOR (2) ALLIGNMENT OSCILIOSCOPE (3)VTVM	LET THE MW ANTENNA COIL L102 CLOSE TO THE LOOP ANTENNA OF AM RF SWEEP GEN.	AS STEP 1	ADJUST L103 TO HAVE 1V +0.5V -0.2V AT VT POINT.	TUNE TO LOW END.
3	HIGH END 1620KHz	AS STEP 2	AS STEP 2	AS STEP 1	CHECK TO HAVE 7.35V +0.5V -0.2V AT VTVM POINT.	TUNE TO HIGH END.
4	TRACKING 612KHz	AS STEP 2	AS STEP 2	AS STEP 1	ADJUST L102 TO GET MAX. OUTPUT AT 612 KHz	PRESS BUTTON TO 612KHz
5	TRACKING 1404KHz	AS STEP 2	AS STEP 2	AS STEP 1	ADJUST C110 TO GET MAX. OUTPUT AT 1404KHz	PRESS BUTTON TO 1404KHz
6	REPEAT STEP 4,5 AND THEN STEP 2,3,4,5 UNTIL NO FURTHER IMPROVEMENT CAN BE MADE.					
7	TRACKING 999KHz	AS STEP 2	AS STEP 2	AS STEP 1	MAKE SURE THE OUTPUT AT 999KHz SHOULD BE WITHIN THE SPECIFICATION.	PRESS BUTTON TO 999KHz

ALLIGNMENT INSTRUCTION - FM STEREO SECTION

MODEL NO. VCD3-1000

STEP	FREQUENCY	TEST EQUIPMENT	SIGNAL IN	SIGNAL OUT	ADJUSTMENT	REMARK
1	PILOT SIGNAL ADJUST	(1) FREQUENCY COUNTER		TAKE OUT SINGAL FROM IC 101 PIN 11 IN SERIES WITH RESISTOR 330K	CHECK 19KHZ	(1) BAND SWITCH IN FM POSITION (2) MODE SWITCH IN ST POSITION
2	SEPARATION CHECK 98.1 MHz	(1) FM STEREO SIGNAL GENERATOR (2) OSCILIOSCOPE (3) AC VOLTMETER	INJECT THE STEREO L-CH RF SIGNAL DIRECTLY TO ANTENNA INPUT.	TAKE OUT SINGAL FROM AUDIO OUTPUT L-CH AND R-CH WITH 4 ohm LOAD.	THE R-CH OUTPUT IN MIN. READING ON AC VOLTMETER	(1) PRESS BUTTON TO 98.1MHZ (2) SET VOL.CONTROL TO MAKE L-CH TO REF. OUTPUT
3	SEPARATION CHECK 98.1 MHz	AS STEP 2	INJECT THE STEREO R-CH RF SIGNAL DIRECTLY TO ANTENNA INPUT.	AS STEP 2	THE L-CH OUTPUT IN MIN. READING ON AC VOLTMETER	SET VOL. CONTROL TO R-CH TO REF. OUTPUT
4	REPEAT STEP 2,3 AND THEN RECORD THE READING AS CHANNEL SEPARATION.					
5	STEREO IND. ON SENS. 98.1 MHz	AS STEP 2	INJECT THE STEREO RF SIGNAL WITH 60dB DIRECTLY TO ANTENNA INPUT.	AS STEP 2	THE STEREO LED MUST BE ON	
6	SAME AS STEP 5, DECREASE THE INPUT SIGNAL FROM THE GENERATOR UNTIL THE STEREO IND. OFF THEN INCREASE THE SIGNAL GRADUALLY UNTIL THE STEREO IND. JUST ON. RECORD THIS READING AS STEREO IND. ON SENSITIVITY.					

MODEL NO. : VCD3-1000

IC102 TA8132AN

PIN	=V	PIN	=V
1	.004	13	.008
2	3.96	14	1.036
3	4.00	15	3.49
4	4.00	16	3.85
5	4.00	17	.008
6	3.36	18	.651
7	.404	19	.009
8	.339	20	3.129
9	4.00	21	4.01
10	.385	22	3.83
11	4.01	23	4.01
12	0	24	4.01

IC101 TA7358AP

PIN	=V
1	.745
2	1.462
3	1.765
4	1.440
5	0
6	2.020
7	1.263
8	1.989
9	2.020

IC 1 DJ3V

PIN	=V	PIN	=V	PIN	=V	PIN	=V
1	0	26	5.02	51	4.90	76	1.248
2	1.889	27	5.02	52	.043	77	1.248
3	1.893	28	5.03	53	.502	78	1.248
4	4.75	29	.028	54	.043	79	1.246
5	2.723	30	.026	55	1.438	80	1.438
6	2.126	31	.027	56	1.434	81	1.436
7	.993	32	4.86	57	1.358	82	1.429
8	.002	33	.027	58	1.428	83	1.209
9	.993	34	.007	59	1.417	84	1.186
10	4.20	35	.007	60	.008	85	1.328
11	5.01	36	.029	61	1.428	86	1.439
12	4.86	37	.031	62	1.418	87	1.412
13	4.87	38	.020	63	1.418	88	1.266
14	4.49	39	.021	64	1.428	89	1.427
15	.003	40	.022	65	1.426	90	1.429
16	.008	41	4.02	66	1.222	91	1.142
17	4.86	42	.002	67	1.210	92	1.214
18	4.86	43	.010	68	1.416	93	1.426
19	4.87	44	.010	69	1.428	94	1.430
20	.018	45	4.15	70	1.428	95	1.429
21	.019	46	4.97	71	1.202	96	2.794
22	.019	47	2.488	72	1.402	97	1.885
23	.020	48	5.04	73	1.424	98	1.544
24	.021	49	0	74	1.422	99	.563
25	.022	50	0	75	1.430	100	4.92

IC304 TC4052BP

PIN		
1	.553	
2	.005	
3	.021	
4	.569	
5	.021	
6	.021	
7	.021	
8	.021	
9	.003	
10	.054	
11	.489	
12	.006	
13	.021	
14	.005	
15	.021	
16	3.99	

IC303 TA2078P

PIN	=V	PIN	=V
1	004	9	048
2	4.92	10	048
3	007	11	004
4	005	12	4.90
5	4.90	13	004
6	003	14	005
7	6.81	15	4.91
8	0	16	.004

IC 301 TA8207K

PIN	=V
1	14.67
2	7.88
3	14.99
4	7.91
5	.585
6	.010
7	.010
8	.585
9	0
10	4.88
11	.003
12	14.88

IC302 PT2256

PIN	=V	PIN	=V
1	0	9	6.24
2	3.140	10	6.27
3	3.132	11	.001
4	3.138	12	3.140
5	3.140	13	.006
6	6.24	14	3.131
7	.006	15	.006
8	2.733	16	6.27

TC9257F

PIN	=V	PIN	=V	PIN	=V
1	.238	9	.336	17	.007
2	3.33	10	.057	18	.007
3	4.87	11	.057	19	.018
4	4.88	12	4.95	20	.704
5	.035	13	.007		
6	.366	14	.007		
7	.358	15	.005		
8	.341	16	.007		

U6 TA2092N

PIN	=V	PIN	=V	PIN	=V
1	0	9	0	17	1.915
2	0	10	1.289	18	0
3	1.290	11	0	19	1.289
4	0	12	0	20	2.031
5	1.922	13	0	21	0
6	2.029	14	0	22	1.289
7	.311	15	1.289	23	0
8	1.922	16	0	24	0

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U6 TA2092N

PIN	=V	PIN	=V
1	0	13	0
2	0	14	0
3	1.292	15	1.289
4	0	16	0
5	1.922	17	1.915
6	2.022	18	0
7	.311	19	1.289
8	1.921	20	2.031
9	0	21	0
10	1.292	22	1.289
11	0	23	0
12	0	24	0

U4 TA2092N

PIN	=V	PIN	=V
1	0	13	0
2	0	14	0
3	1.292	15	1.923
4	0	16	0
5	1.922	17	1.923
6	2.028	18	0
7	.313	19	1.923
8	1.922	20	2.043
9	0	21	0
10	1.923	22	1.923
11	0	23	0
12	0	24	0

U002 TA2109F

PIN	=V
1	4.77
2	2.026
3	2.026
4	1.976
5	1.955
6	.076
7	4.19
8	.013
9	2.031
10	4.02
11	2.023
12	2.059
13	.943
14	2.023
15	2.030
16	2.030
17	1.044
18	2.027
19	2.105
20	2.037
21	2.027
22	.634
23	.011
24	2.027

U001 TC9462F

PIN	=V	PIN	=V	PIN	=V	PIN	=V
1	4.77	26	2.034	51	.013	76	4.80
2	4.79	27	4.73	52	.143	77	.001
3	4.79	28	2.033	53	2.020	78	2.235
4	4.79	29	1.281	54	2.030	79	2.336
5	2.361	30	.014	55	2.019	80	4.72
6	.009	31	1.286	56	.403	81	.674
7	2.399	32	4.16	57	.018	82	2.735
8	.010	33	2.030	58	4.78	83	4.79
9	.010	34	2.030	59	4.78	84	2.727
10	.342	35	1.351	60	4.78	85	.674
11	1.272	36	.008	61	4.78	86	4.76
12	.009	37	2.028	62	4.80	87	4.77
13	.529	38	4.79	63	.003	88	4.75
14	4.79	39	2.031	64	.074	89	4.37
15	.007	40	1.045	65	.073	90	4.19
16	.009	41	2.029	66	.081	91	.048
17	2.230	42	1.045	67	.059	92	4.16
18	.009	43	2.025	68	4.77	93	.048
19	2.434	44	.948	69	4.77	94	4.35
20	2.293	45	2.030	70	4.76	95	4.27
21	1.615	46	2.066	71	.001	96	4.33
22	4.81	47	2.066	72	.001	97	4.14
23	4.82	48	2.022	73	.001	98	4.76
24	.007	49	2.023	74	.001	99	4.77
25	4.04	50	2.030	75	4.80	100	4.87

Q1 9013H

E	.754	
B	.024	
C	11.39	

Q10 9014C

E	4.42	
B	4.84	
C	11.43	

Q9 9014C

E	4.44	
B	4.84	
C	11.42	

Q11 9014C

E	2.623	
B	3.237	
C	11.42	

Q8 9014C

E	4.48	
B	4.84	
C	11.44	

Q17 9014C

E	647	
B	.260	
C	.649	

Q18 9014C

E	649	
B	.256	
C	.645	

Q19 9013H

E	2.348	
B	.256'0	
C	2.236	

Q11 A1020

E	8.38	
B	1.263	
C	8.38	

Q16 9014C

E	0	
B	.033	
C	8.38	

Q23 J105

E	0
B	8.29
C	.014

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Q201 9014C		Q202 9014C		Q102 9014C		Q101 9018H		Q106 9014C		Q110 9014C	
E	1.401	E	1.645	E	1.549	E	.055	E	4.03	E	0
B	2.046	B	2.201	B	.869	B	.752	B	3.38	B	.041
C	3.87	C	3.85	C	0	C	2.370	C	0	C	1.776

Q111 9013H		Q108 9014C		Q105 9014C		Q4 9014C		Q5 9014C		Q6 9018H	
E	.303	E	0	E	0	E	.005	E	.464	E	0
B	.096	B	.649	B	.041	B	.471	B	.088	B	.057
C	.367	C	.649	C	0	C	.556	C	.605	C	.031

Q308 9014C		Q309 9014C		Q304 9014C		Q104 9014C		Q305 9015C		Q105 9015C	
E	0	E	0	E	11.94	E	3.124	E	0	E	4.00
B	.069	B	.642	B	11.83	B	.312	B	.867	B	3.50
C	6.20	C	.009	C	.351	C	3.99	C	11.02	C	3.51

Q302 8050		Q310 9014C		Q311 9015C		Q318 9015C		Q317 9014C		Q316 9014C	
E	3.37	E	.014	E	11.94	E	14.80	E	0	E	0
B	2.798	B	.638	B	14.25	B	14.00	B	.648	B	.278
C	0	C	0	C	14.86	C	'13.79	C	.103	C	.648

MODEL NO.: VCD3-1000

BM NO.: EXPLODED VIEW WITH PART LIST

ITME	PART NO.	DESCRIPTION	QTY	REMARKS
1	270-0T3016-BA0	SCREW T3 x 16 BA	2	
2	350-3CD000-000	BACK PLATE	1	
3	270-0M3010-BHB	SCREW M3 x 10 BH BLACK	1	
4	270-0M3010-BHB	SCREW M3 x 10 BH BLACK	1	
5	270-0T3016-BA0	SCREW T3 x 16 BA	1	
6	182-3CD00B-000	HEAT SINK (BIG) 3CD	1	
7	270-0T3008-PA0	SCREW T3 x 8 PA	4	
8	080-3CD000-021	PCB 3CD 02-1	1	
9	110-RCA22V-020	RCA JACK RJ-22V02	1	
10	213-067000-000	RUBBER BELT	1	
11	080-3CD000-050	PCB 3CD 05/09	1	
12	137-MSP106-000	SPEAKER TERMINALS 4PIN	1	
13	270-0T3016-BA0	SCREW T3 x 16 BA	2	
14	270-0T3016-BA0	SCREW T3 x 16 BA	3	
15	780-P103CD-000	PUIIEY d14 3CD	1	
16	402-3CDL00-000	MECHANIC TL. CAP 3CD	1	
17	546-3CD000-000	MECHANIC VCD3 IR-LENS	1	
18		Remote PCB	1	
19	270-0T3008-PA0	SCREW T3 x 8 PA	1	
20	270-0T3008-PA0	SCREW T3 x 8 PA	4	
21	175-B203CD-000	BRASS INSERT PLATE 22 x 10 x 1	2	
22	270-TW3010-PA0	SCREW TWA3 x 10 PA	3	
23	175-B203CD-000	BRASS INSERT PLATE 22 x 10 x 1	2	
24	210-3CD20G-0B3	CD CUSHION 3CD	3	
25	752-3CD000-000	MECHANIC SCREW ADAPRT 3CD	1	
26	082-3CD000-002	CD-PCB 3CD 02	1KIT	
27	780-S203CD-000	STEP DOWN	1	
28	141-1TM213-CJM	CD DECK	1	
29	190-120035-010	METAL WASHER	1	
30	175-C503CD-B00	CD SHAFT (B) 3CD	2	
31	210-3CD15G-0B3	CD CUSHION 3CD	3	
32				
33	752-3CD000-000	MECHANIC SCREW ADAPRT 3CD	2	
34	175-B203CD-000	BRASS INSERT PLATE 22 x 10 x 1	2	
35	270-TW3010-PA0	SCREW TWA3 x 10 PA	2	
36	175-C503CD-B00	CD SHAFT (B) 3CD	2	
37	190-120035-010	METAL WASHER	2	
38	752-3CD000-000	MECHANIC SCREW ADAPRT 3CD	1	
39	270-0T3008-PA0	SCREW T3 x 8 PA	2	
40	139-M9I50T-282	MOTOR M9I50T28-2	1	
41	780-B103CD-000	BUSHING	1	
42	175-D403CD-A00	DOOR SHAFT	1	
43	080-3CD000-030	PCB 3CD 03/11	1	
44	270-0T3008-PA0	SCREW T3 x 8 PA	2	
45	270-0T3008-PA0	SCREW T3 x 8 PA	2	
46	210-3CD20G-0B3	CD CUSHION 3CD	3	
47	196-000M30-000	NUT M3	2	
48	270-TW3010-PA0	SCREW TWA3 x 10 PA	1	
49	175-B203CD-000	BRASS INSERT PLATE 22 x 10 x 1	2	
50	190-120035-010	METAL WASHER	2	
51	175-C503CD-B00	CD SHAFT (B) 3CD	2	
52	400-3CD000-000	MECHANIC 3CD BACK CABINET	1	
53	270-0T3012-BA0	SCREW T3 x 12 PA	1	

MODEL NO.: VCD3-1000

BM NO.: EXPLODED VIEW WITH PART LIST

ITME	PART NO.	DESCRIPTION	QTY	REMARKS
54	210-3CD15G-0B3	CD CUSHION 3CD	3	
55	192-140030-016	FIBRE WASHER d14	1	
56	190-032100-010	METAL WASHER	1	
57				
58	141-1TM213-CJM	CD DECK	1	
59	752-3CD000-000	MECHANIC SCREW ADAPRT 3CD	2	
60	190-120035-010	METAL WASHER	3	
61	080-3CD000-010	PCB 3CD 01	1	
62	147-3CD57F-146	EI-57 230V	1	
63	196-000M30-000	NUT M3	1	
64	175-C503CD-A00	CD SHAFT (A) 3CD	2	
65	270-0T3008-PA0	SCREW T3 x 8 PA	2	
66	196-000M30-000	NUT M3	1	
67	190-032100-010	METAL WASHER	1	
68	183-230000-000	SPEAKER CLIP MTS-2300	2	
69	780-S203CD-000	STEP DOWN	1	
70	270-0T3008-PA0	SCREW T3 x 8 PA	2	
71	270-0T3008-PA0	SCREW T3 x 8 PA	2	
72	09-00315A-250	Fuse 50T 3.15A-250V	1	
73	270-0T3008-PA0	SCREW T3 x 8 PA	1	
74	456-3CD00B-000	MECHANIC 3CD LCD CUP	1	
75		Lamp Board	1	
76	270-0T3008-PA0	SCREW T3 x 8 PA	1	
77	282-140175-000	0.88 GREEN FIUTER 140 x 17.5	1	
78	270-0T3008-PA0	SCREW T3 x 8 PA	1	
79		Led PCB	1	
80	270-0T3008-PA0	SCREW T3 x 8 PA	1	
81	183-091000-000	SPEAKER CLIP LK-910	1	
82	179-3CD000-000	SCREW LUG 3CD	1	
83		Phones PCB	1	
84	398-3CDL00-000	MECHANIC 3CD BL. CAP	1	
85		CD Door PCB	1	
86	451-3CD000-000	MECHANIC DOOR KEY 3CD	1	
87	452-3CDD00-000	MECHANIC KEY COVER 3CD	1	
88	456-3CD00A-000	MECHANIC 3CD LCD BOX	1	
89	270-0T3008-PA0	SCREW T3 x 8 PA	1	
90	452-3CD000-000	MECHANIC CD KEY 3CD	1	
91	270-0T3008-PA0	SCREW T3 x 8 PA	1	
92		Led PCB	2	
93	452-3CD000-000	MECHANIC CD KEY 3CD	2	
94	270-0T3008-PA0	SCREW T3 x 8 PA	2	
95	467-3CD000-000	MECHANIC 3CD CD LAM LENS	1	
96	456-3CD00C-000	NMECHANIC 3CD LCD FRAME	1	
97	272-3CD000-000	DOOR CATCH MAGNET	1	
98	476-3CD000-000	MECHANIC POWER KEY LENS	1	
99	632-3CD000-000	MECHANIC POWER KEY 3CD	1	
100	398-3CDR00-000	MECHANIC 3CD BR. CAP	1	
101	452-3CDC00-000	MECHANIC C KEYS 3CD	1	
102	452-3CDC00-000	MECHANIC C KEYS 3CD	1	
103	452-3CDL00-000	MECHANIC R KEYS 3CD	1	
104	080-3CD000-0040	PCB 3CD 04	1	
105	270-0T3008-PA0	SCREW T3 x 8 PA	1	
106	270-0T3008-PA0	SCREW T3 x 8 PA	3	
107	270-0T3008-PA0	SCREW T3 x 8 PA	3	

MODEL NO.: VCD3-1000

BM NO.: EXPLODED VIEW WITH PART LIST

ITME	PART NO.	DESCRIPTION	QTY	REMARKS
108	175-D403CD-A00	DOOR SHAFT	1	
109	780-B103CD-000	BUSHING	1	
110	570-3CD000-000	MECHANIC 3CD FRONT CABINET	1	
111	754-3CD000-000	MECHANIC DOOR BAR 3CD	1	
112	288-000048-090	STEEL WIRE d0.9	1	
113	270-0T3012-PA0	SCREW T3 x 12 PA	1	
114	450-3CD000-000	MECHANIC DOOR BACK 3CD	1	
115	180-C303CD-000	DOOR SPRING	1	
116	458-3CD000-000	MECHANIC 3CD CD DOOR	1	
117	196-000M30-000	NUT M3	2	
118	175-G103CD-R00	GEAR PLATE (R) 3CD	1	
119	110-00G200-005	Led d5mm Green	1	
120	402-3CDR00-000	MECHANIC TR. CAP 3CD	1	
121	270-0T3008-PA0	SCREW T3 x 8 PA	2	
122	270-0T3012-PA0	SCREW T3 x 12 PA	1	
123	450-3CD000-000	MECHANIC DOOR BACK 3CD	1	
124	755-3CDA00-000	MECHANIC 3CD CD DISC	1	
125	459-3CD000-000	MECHANIC DOOR COVER 3CD	2	
126	270-0T3008-PA0	SCREW T3 x 8 PA	2	
127	127-3CD000-000	DOOR CATCH MAGNET	1	
128	452-3CDL00-000	MECHANIC L KEYS 3CD	1	
129	179-3CD000-000	SCREW LUG 3CD	1	
130	450-3CD000-000	MECHANIC DOOR BACK 3CD	1	
131	110-00G200-005	Led d5mm Green	2	
132	270-0T3008-PA0	SCREW T3 x 8 PA	1	
132	175-B203CD-000	BRASS INSERT PLATE 22 x 10 x 1		
133	459-3CD000-000	MECHANIC DOOR COVER 3CD	1	
133	270-TW3010-PA0	SCREW TWA3 x 10 PA	1	
134	175-B203CD-000	BRASS INSERT PLATE 22 x 10 x 1	1	
134	755-3CDA00-000	MECHANIC 3CD CD DISC	2	
135	270-TW3010-PA0	SCREW TWA3 x 10 PA	1	
136	270-TW3010-PA0	SCREW TWA3 x 10 PA	1	
137	175-B203CD-000	BRASS INSERT PLATE 22 x 10 x 1	1	
138				
139	141-1TM213-CJM	CD DECK	1	
140	190-032100-010	METAL WASHER 3.2 x 10 x 1	2	
141	270-TW3010-PA0	SCREW TWA3 x 10 PA	1	
142	071-012110-G0A	Power Slide Switch	1	
143		Switch Cover	1	
144				
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LU KEE ELECTRONIC CO.,LTD.

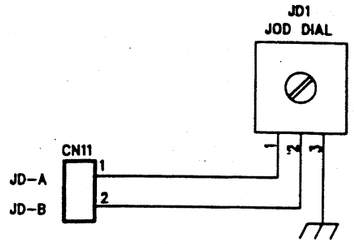
LCD

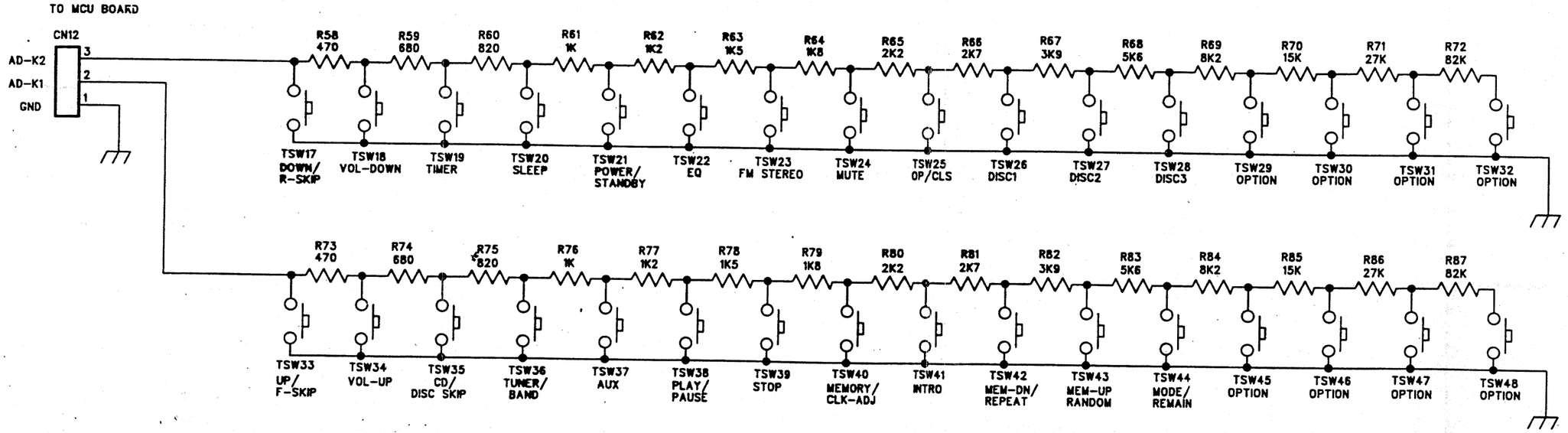
IC1
DJ3V

IC2
TC9257F

THIS CIRCUIT DIAGRAM IS FOR REFERENCE ONLY.

TITLE:	CONTROL BOARD SCHEMATIC DIAGRAM			MODEL:	VCD3-1000
DRAWN:	MCU-SCH	DATED:	22-4-2000	REV.:	B

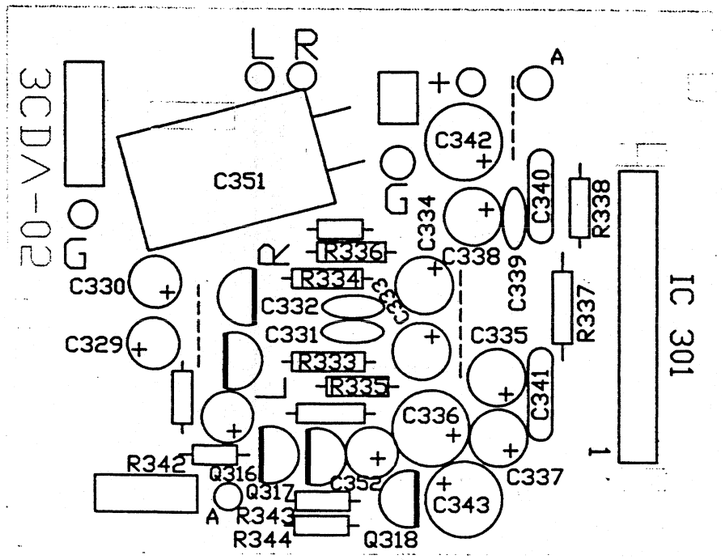


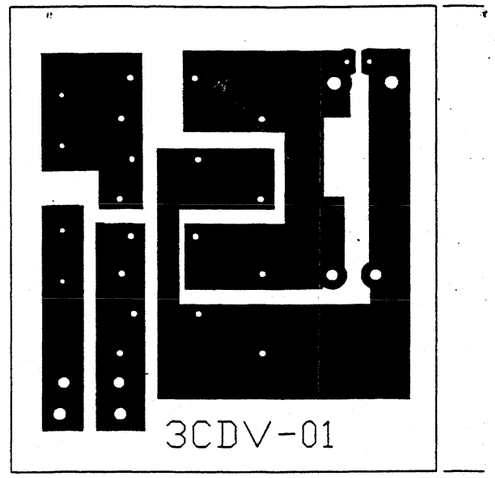


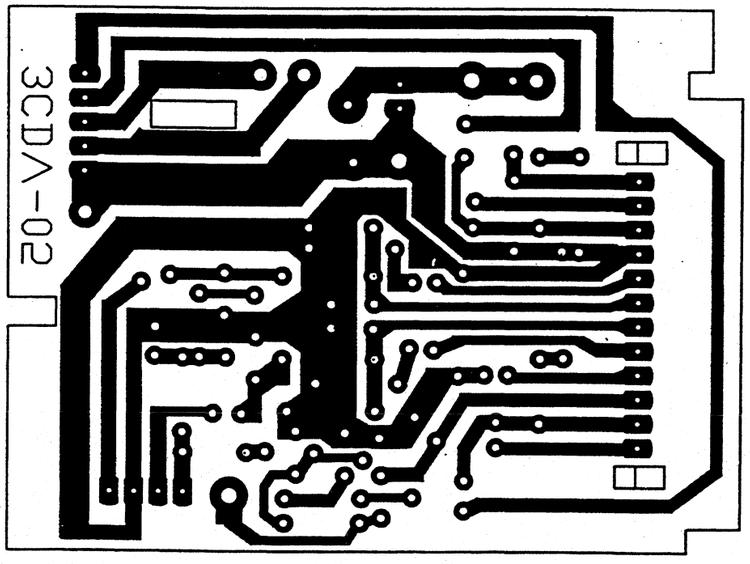
THIS CIRCUIT DIAGRAM IS FOR REFERENCE ONLY.

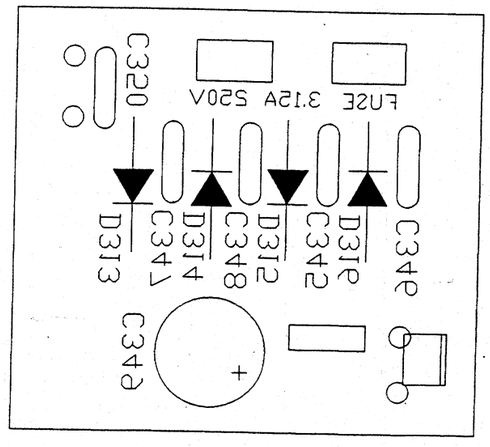
TITLE:	KEY BOARD SCHEMATIC DIAGRAM			MODEL:	DJ3VRD
DRAWN:	FAI CHAN	DATED:	17 Jan.,00	REV.:	A

Model No. VCD3-1000 Power Board

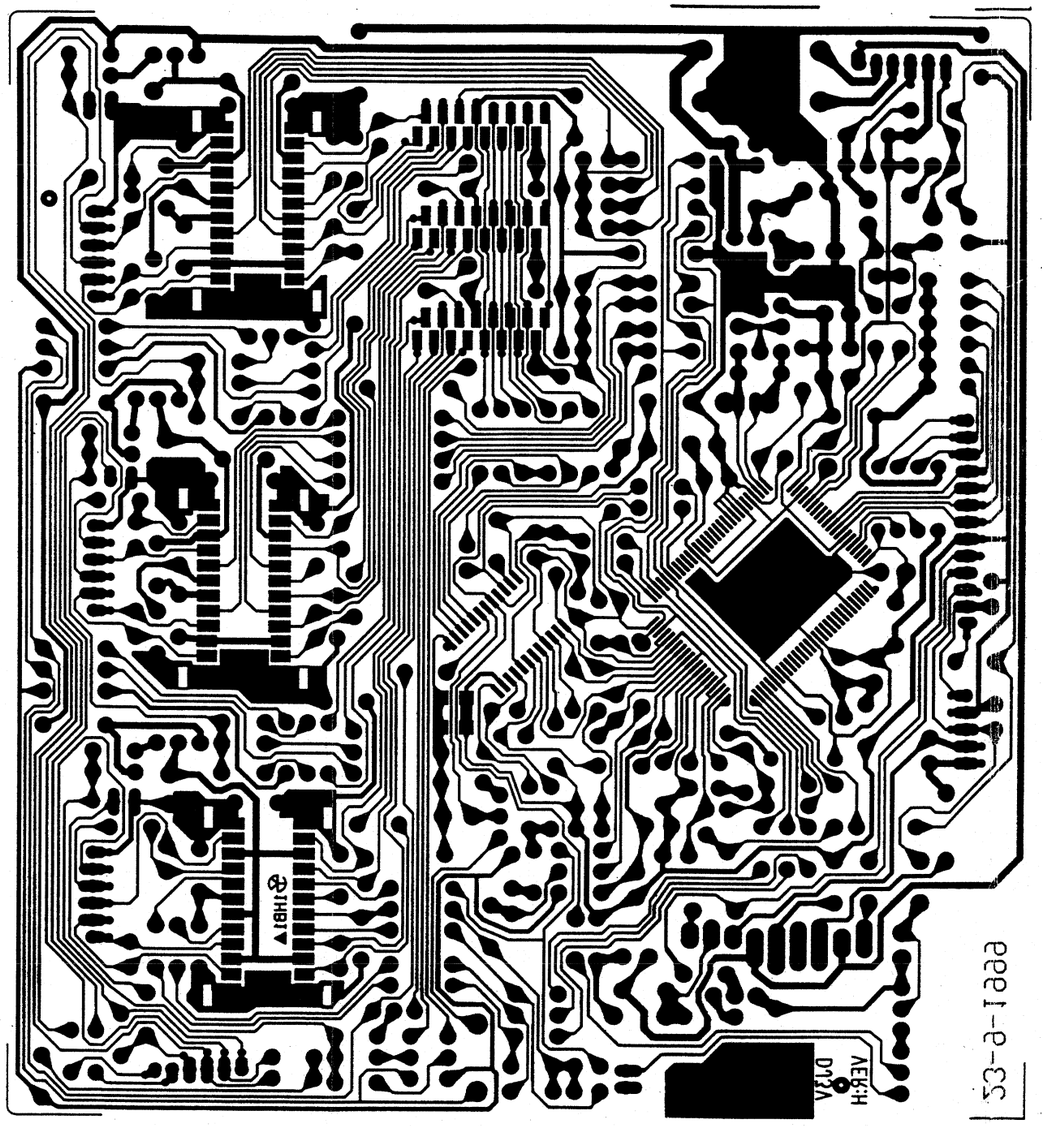


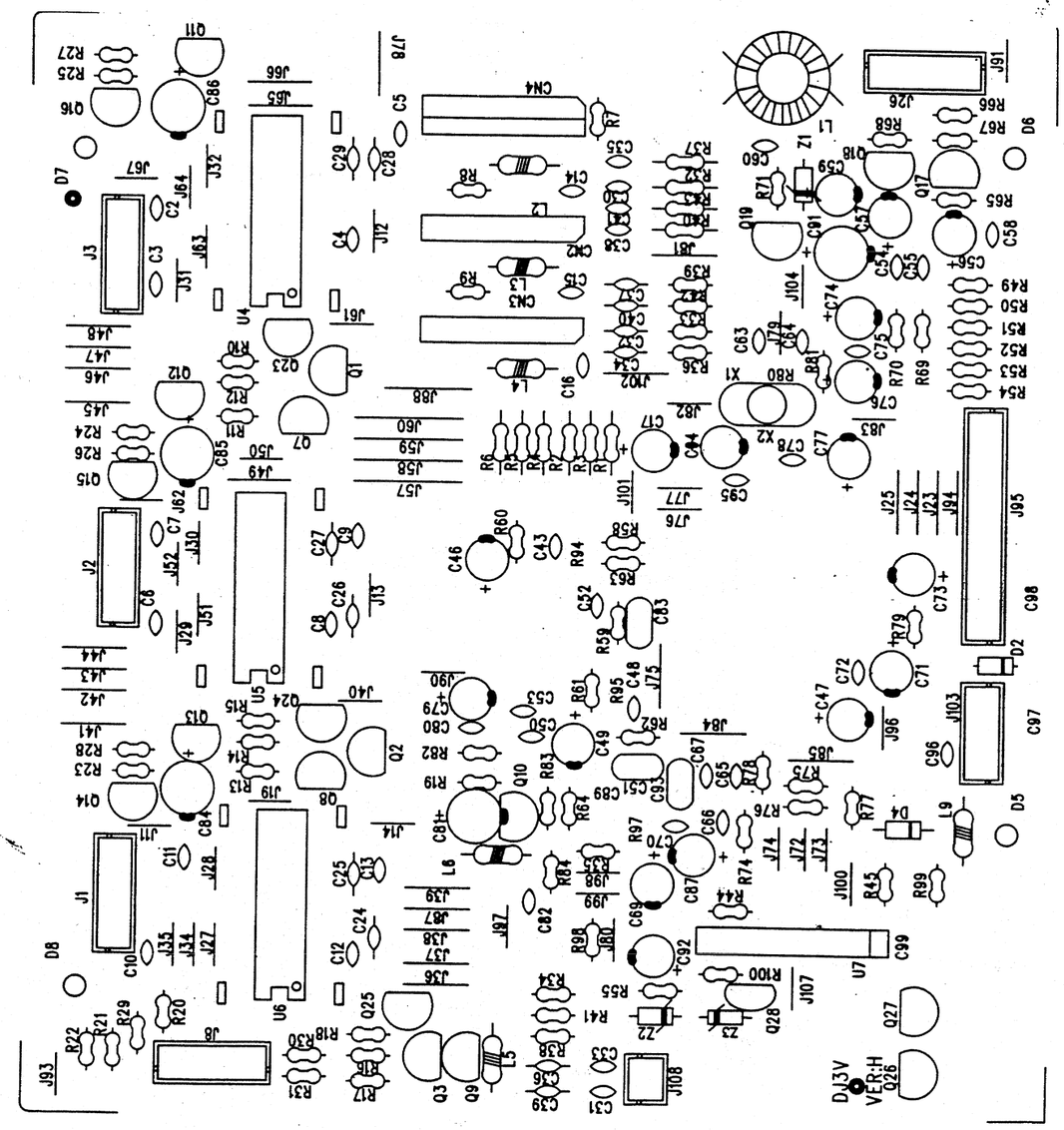


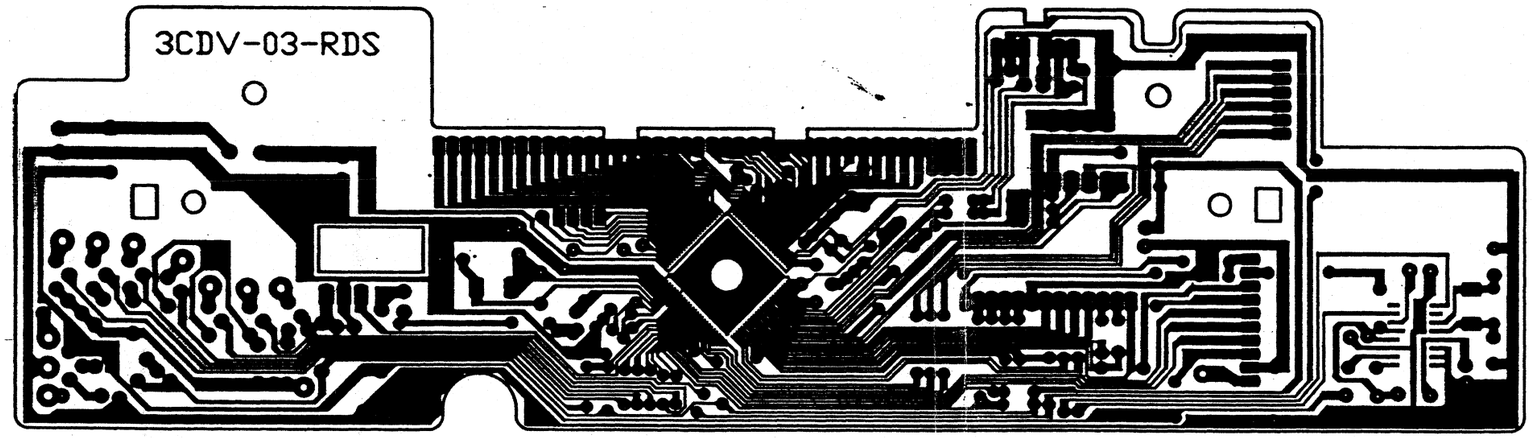


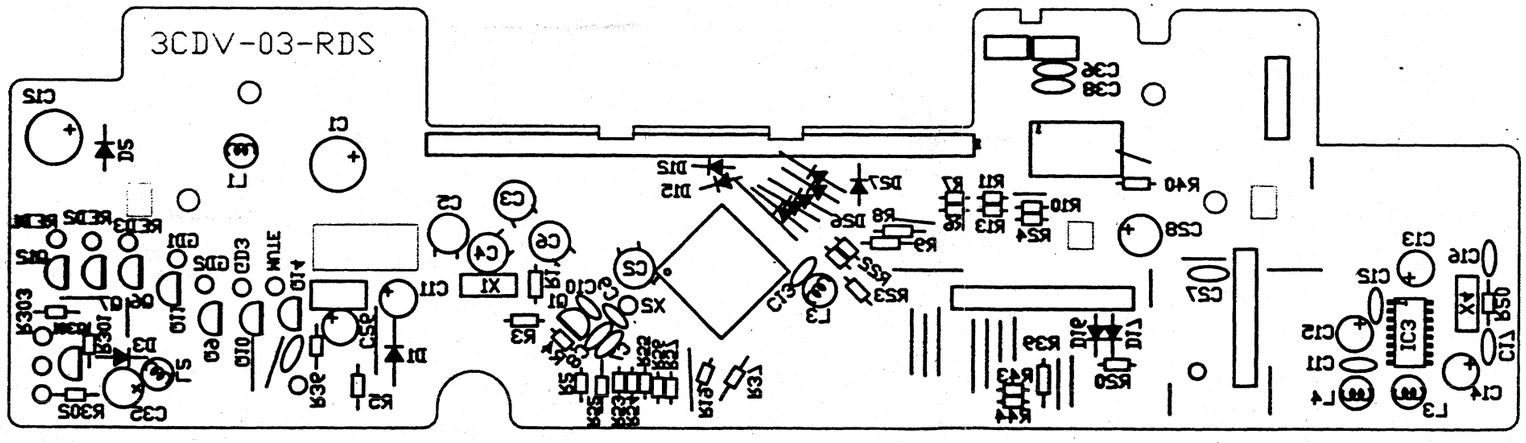


Model No. VCD3-1000 CD Board

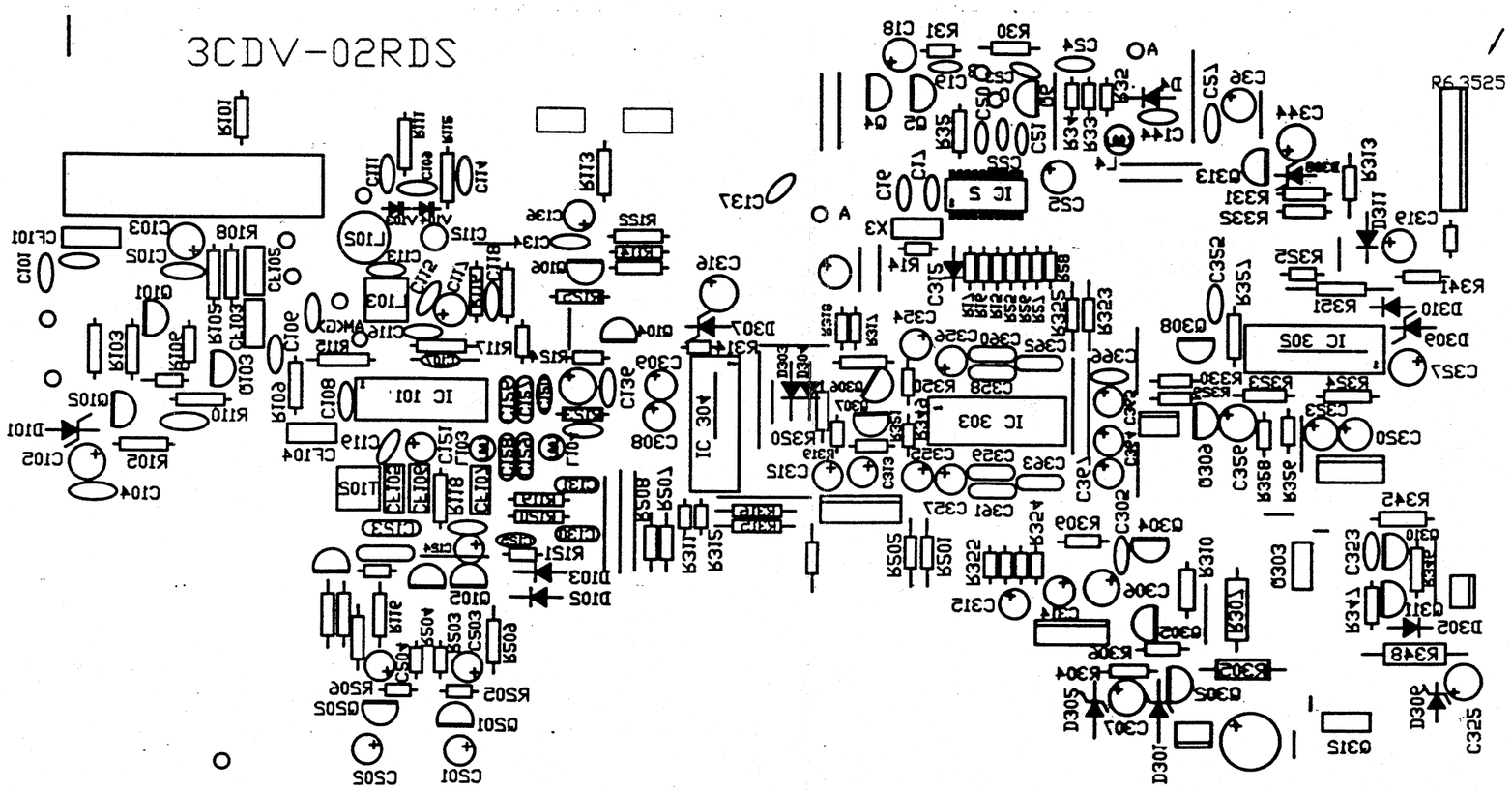




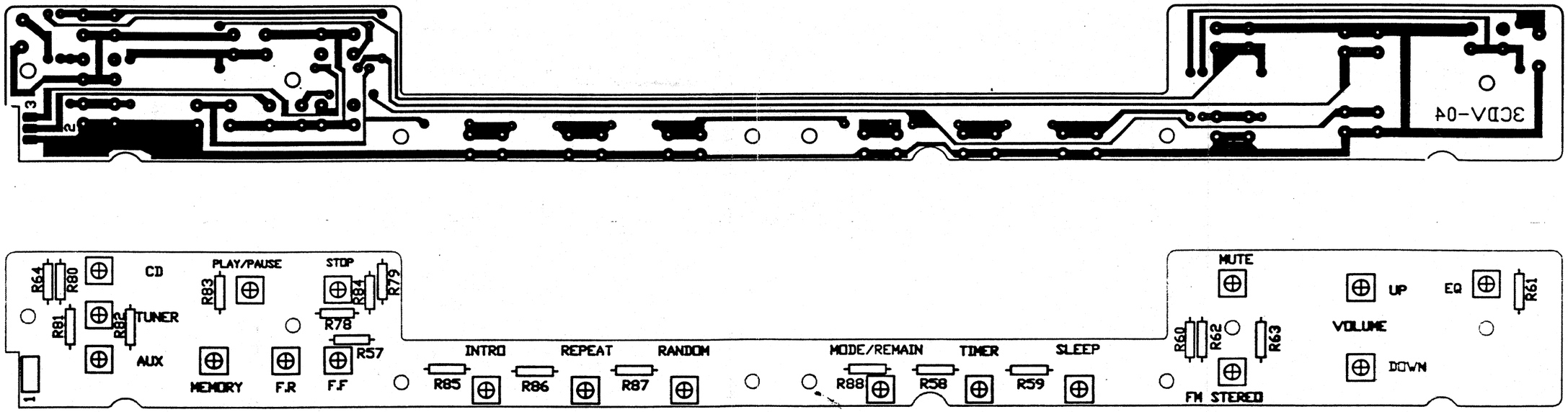




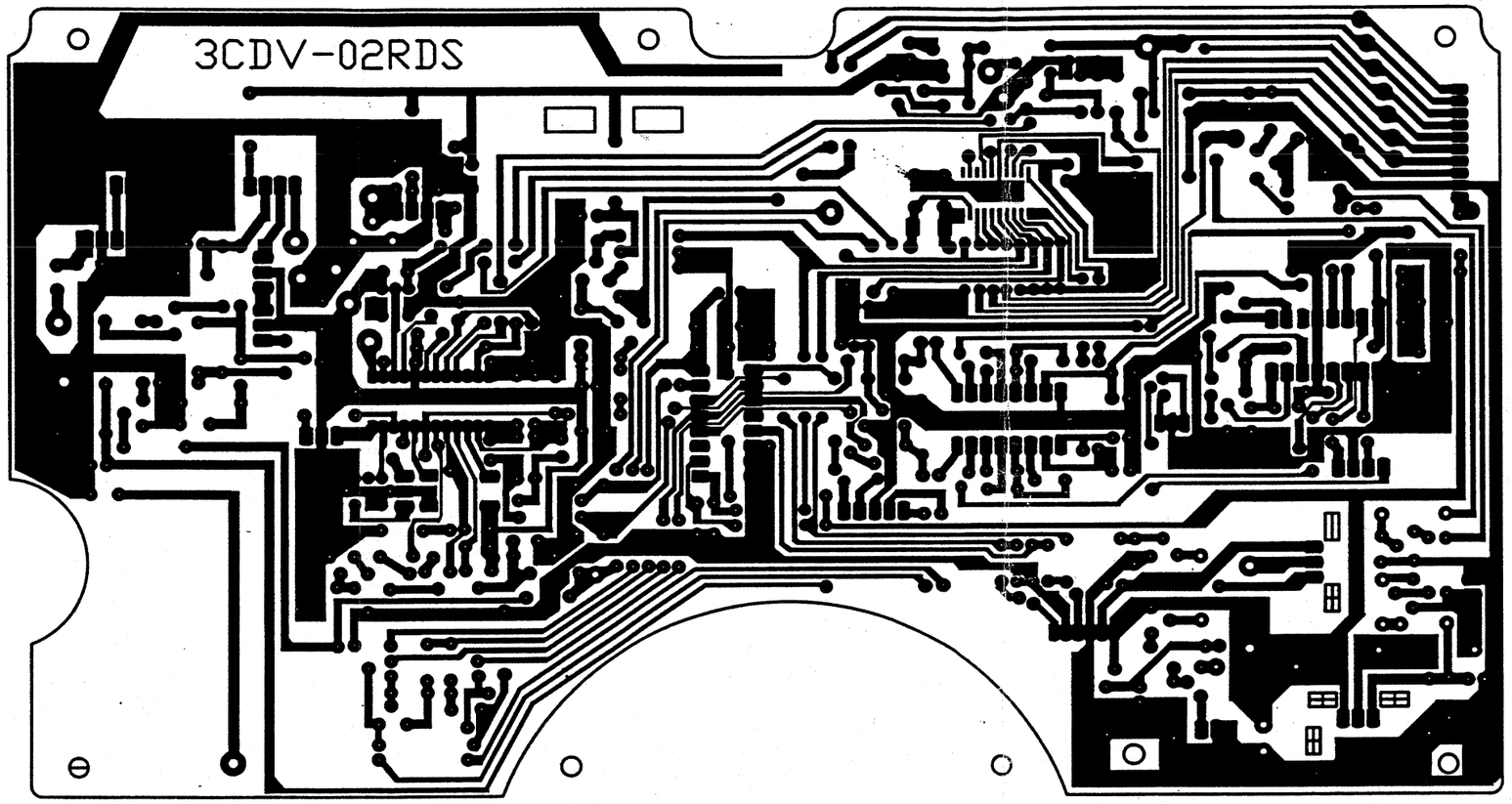
TITLE:		QTY: 1
MODEL: 3CDV-03-RDS	PART NO:	UNIT: M/M
MATERIAL: 1.6 PCB	FINISH: AS LAYOUT	SCALE: 1:1
DRAWN:	APPROVED:	TOL: ±0.10
UNLESS OTHERWISE SPECIFTED ANGLE TO BE 1°		



TITLE: 3CDV-02RDS		QTY: 1
MODEL:	PART NO:	UNIT: M/M
MATERIAL: 1.6 PCB	FINISH: AS LAYOUT	SCALE: 1:1
DRAWN:	APPROVED:	TOL: ±0.10
UNLESS OTHERWISE SPECIFIED ANGLE TO BE 1°		



TITLE: CD CONTROL PCB		QTY: 1
MODEL:	PART NO:	UNIT: M/
MATERIAL: 1.6 PCB	FINISH: AS LAYOUT	SCALE:
DRAWN:	APPROVED:	TOL: ±0.
UNLESS OTHERWISE SPECIFIED ANGLE TO BE 1°		



TITLE: 3CDV-02RDS		QTY: 1
MODEL:	PART NO:	UNIT: M/M
MATERIAL: 1.6 PCB	FINISH: AS LAYOUT	SCALE: 1:1
DRAWN:	APPROVED:	TOL: ±0.10
UNLESS OTHERWISE SPECIFIED ANGLE TO BE 1°		

TITLE : SCHEMATIC DIAGRAM	
MODEL :VCD3-1000	
DRAW NO.	DATE :
SHEET :	REV :
DRAWN BY :	

TO CPU CONTROLLER CN3

TO CPU CONTROLLER CN5

TO STANDBY LED

TO POWER LED

TO LAMP PART

LAMP×4

TO TUNER PART

TO CD SERVO BOARD

12V VCC.
8V VCC.
D/GND
L CH.
A/GND
R CH.

AUX SIGNAL INPUT
L CH.
RCA. PLUG
R CH.

LINE OUTPUT
L CH.
RCA. PLUG
R CH.

IC303 TA2078P

IC304 TC4052BP

IC302 PT2256

IC301 TA8207K

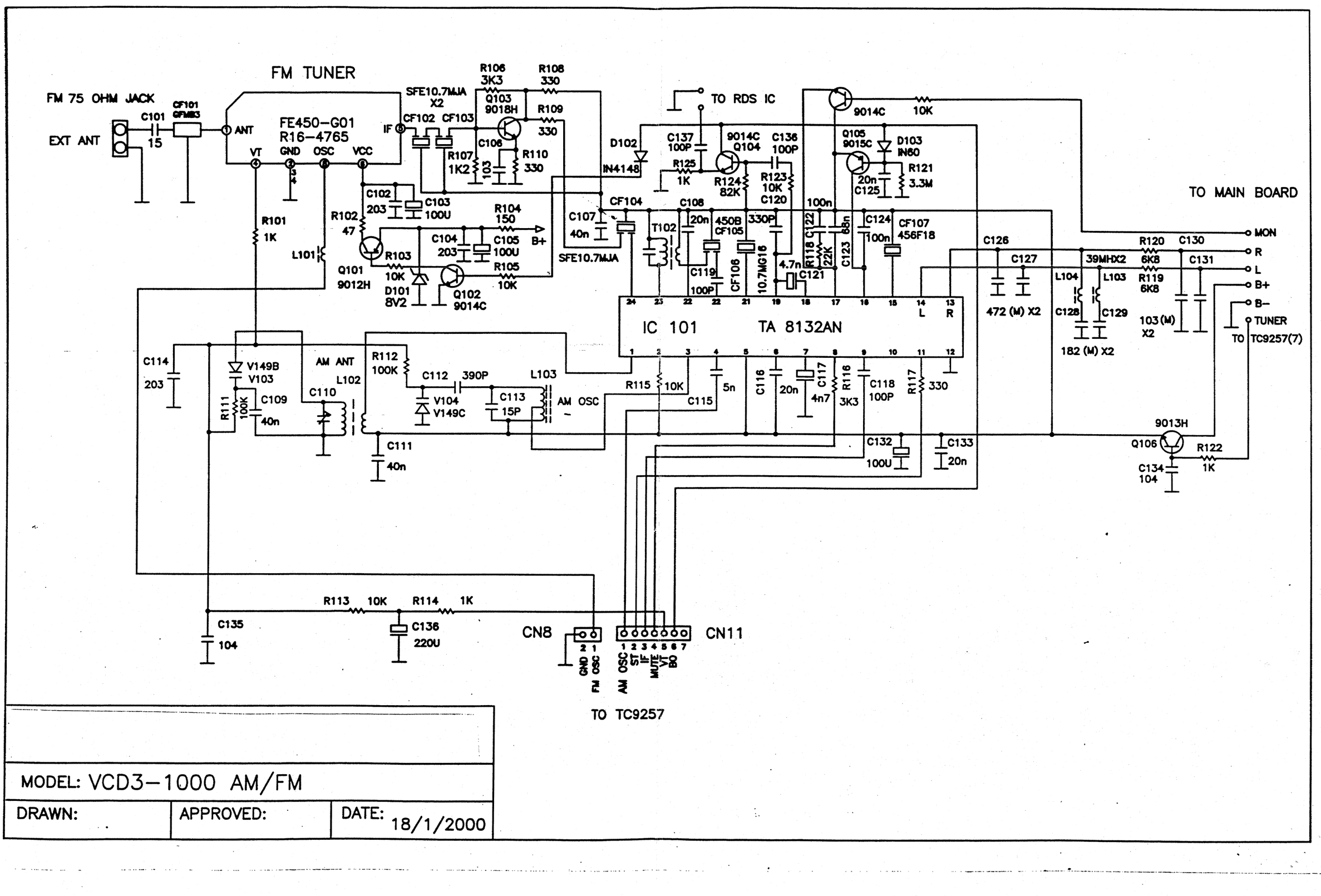
L SP.
RCA. PLUG

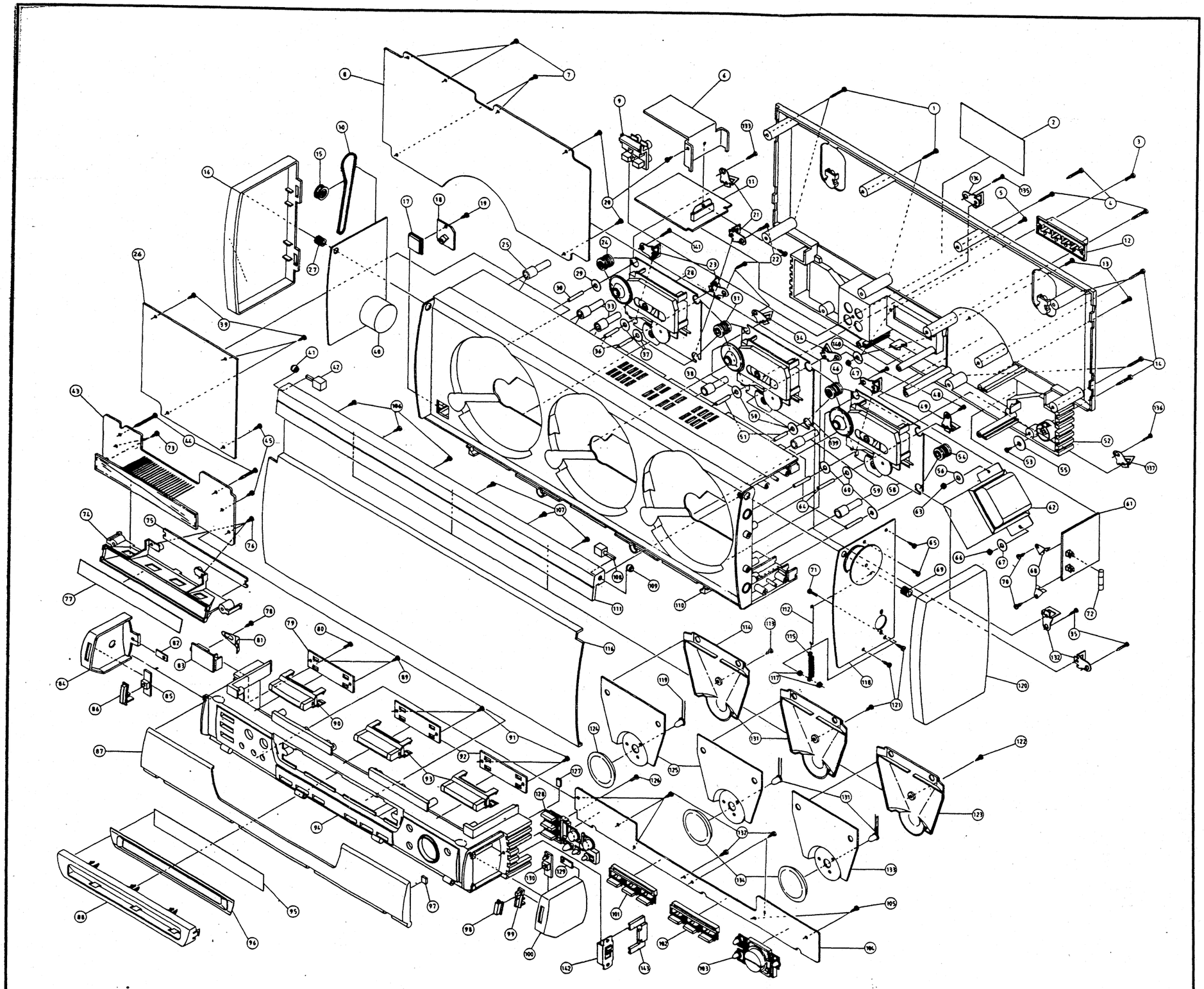
R SP.
RCA. PLUG

JACK

AC IN

FUSE 3.15A


FM TUNER
FM 75 OHM JACK
EXT ANT
C101
15
CF101
6FM85
ANT
FE450-G01
R16-4765
VT
GND
OSC
VCC
IF
SFE10.7MJA
X2
CF102
CF103
R106
3K3
R108
330
Q103
9018H
R109
330
C106
R107
1K2
103
R110
330
D102
IN4148
TO RDS IC
9014C
10K
C137
100P
9014C
Q104
C136
100P
Q105
9015C
D103
IN60
R125
1K
R124
82K
R123
10K
C120
20n
C125
R121
3.3M
TO MAIN BOARD
C102
203
C103
100U
R102
47
R104
150
C104
203
C105
100U
B+
R103
10K
R105
10K
D101
8V2
Q102
9014C
Q101
9012H
L101
R101
1K
CF104
C107
40n
SFE10.7MJA
C108
20n
450B
CF105
T102
330P
C122
100n
C123
68n
C124
100n
CF107
456F18
C119
100P
CF106
10.7MG16
4.7n
C121
R118
22K
C126
C127
472 (M) X2
39MHX2
L104
L103
C128
C129
182 (M) X2
R120
6K8
C130
C131
R119
6K8
103 (M)
X2
MON
R
L
B+
B-
TUNER
TO TC9257(7)
IC 101
TA 8132AN
L
R
C114
203
V149B
V103
AM ANT
L102
R112
100K
C112
390P
L103
C110
R111
100K
C109
40n
V104
V149C
C113
15P
AM OSC
R115
10K
C115
5n
C116
20n
C117
4n7
R116
3K3
C118
100P
R117
330
C111
40n
C132
100U
C133
20n
9013H
Q106
R122
1K
C134
104
R113
10K
R114
1K
C135
104
C136
220U
CN8
CN11
GND
OSC
FM
OSC
AM
ST
IF
MUTE
VT
BD
TO TC9257
MODEL: VCD3-1000 AM/FM
DRAWN:
APPROVED:
DATE: 18/1/2000



REVISION RECORD			
LTR	DCS SEN	APPROVED	DATE

DISC 1
DISC 2
DISC 3
SLT1
SLT2
SLT3
U003 TA2092N
U004 TA2092N
U005 TA2092N
U001 TC9462AF
U002 TA2109F
U006 TA7291S
PW1
PW2
PW3
+8V
+12V
P-GND
R-CH
A-GND
L-CH
VREF
TEO
FEO
RFO
RST
CCE
BUCK
BUS0
BUS1
BUS2
BUS3
OPEN
CLOSE
CLT
OLT
MUTE
LM-CL
LM-OP
PU1
PU2
PU3
FC-
TR-
TR+
FC+
PD
VR
LD
GND
F
C
B
A
D
E
VCC
VC

COMPANY:			
TITLE: DJ3V Servo board			
DRAWN:	DATE:		
CHECKED: DESMOND LAU	DATE: 19 Jul.,99	CODE:	SIZE: DRAWING NO: DJ3V_S REV: E
QUALITY CONTROL:	DATE:		
RELEASED:	DATE:	SCALE:	SHEET: 1 OF 1